

Fig. 1

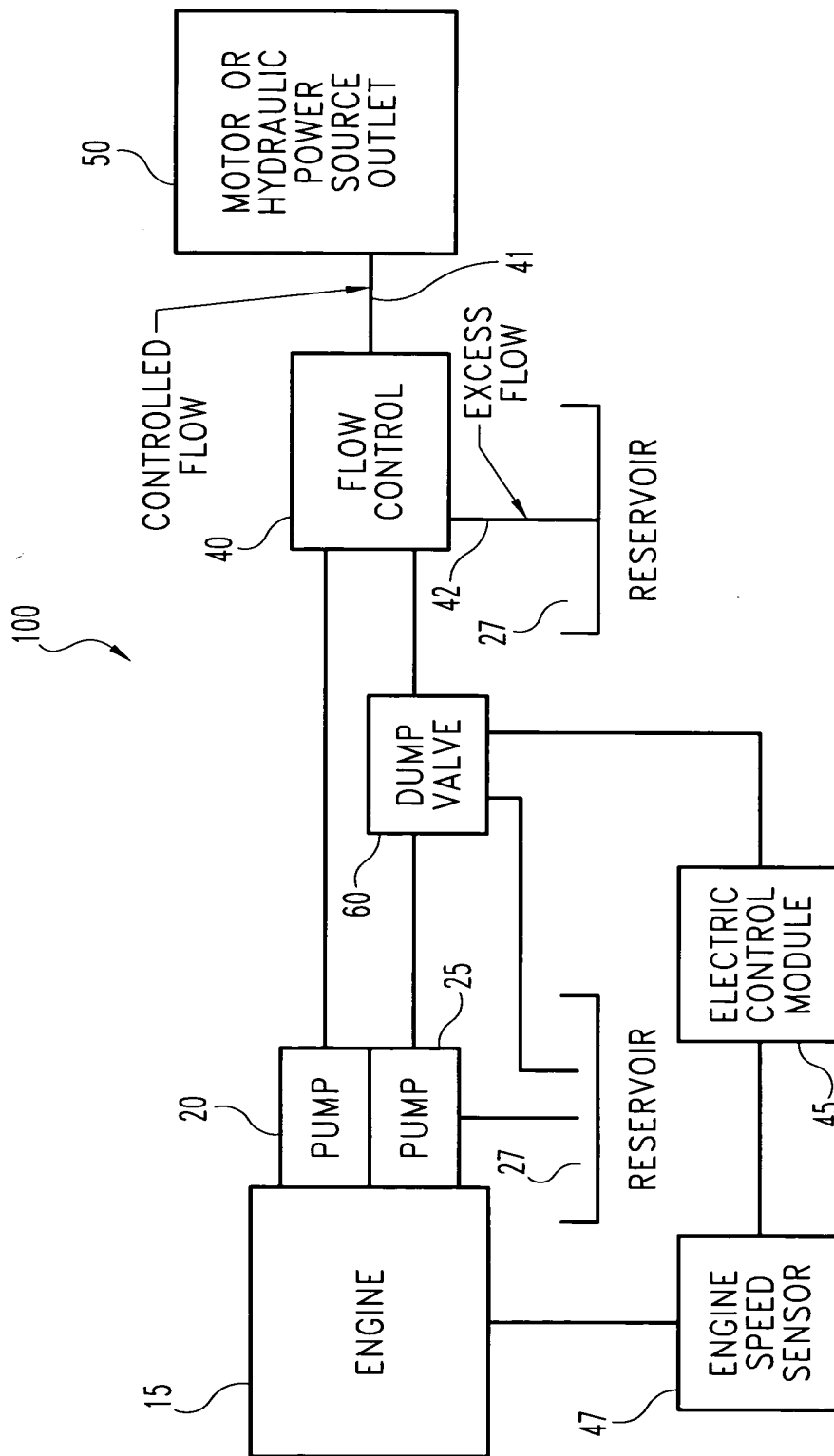


Fig. 2

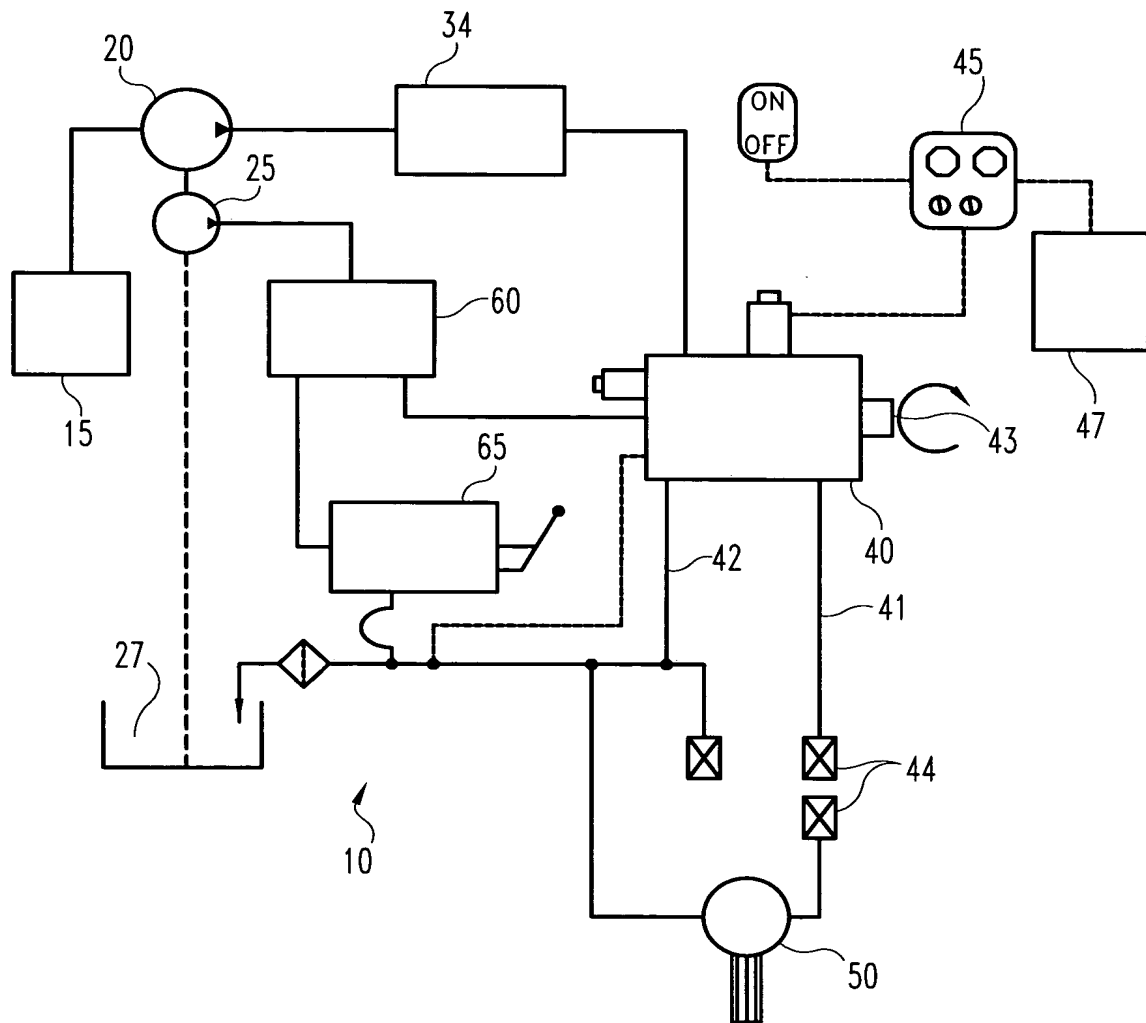


Fig. 3

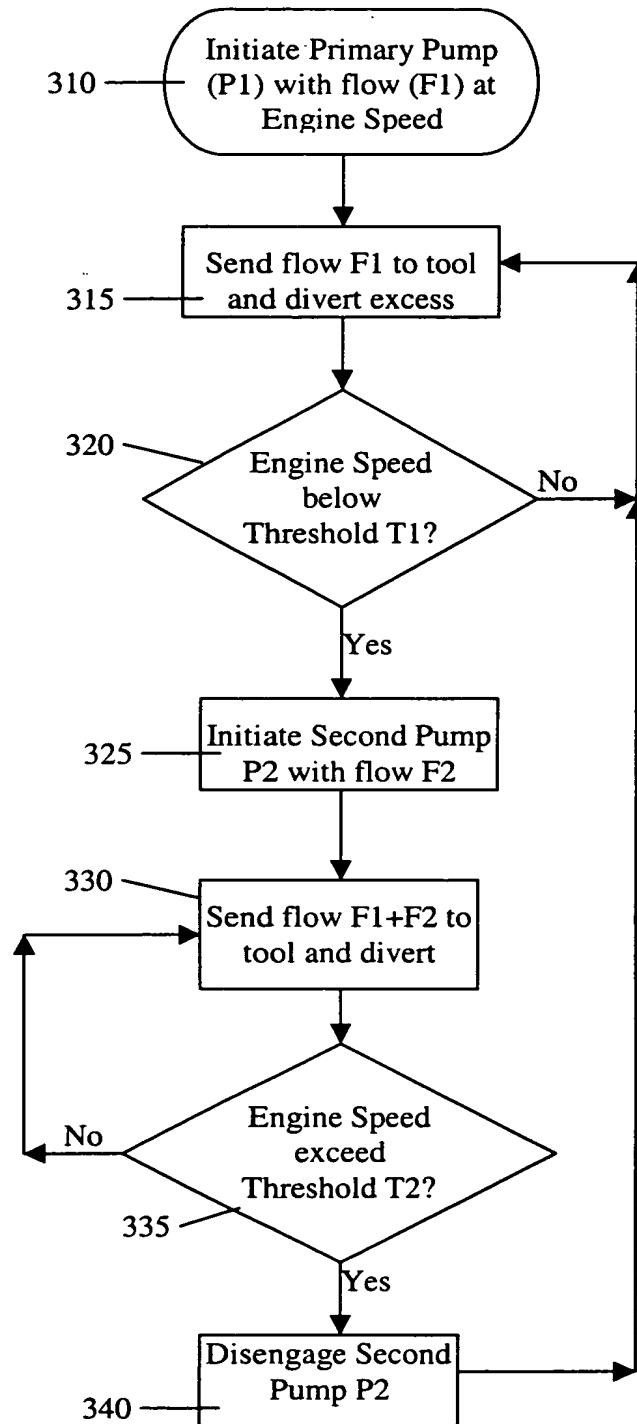


FIGURE 4

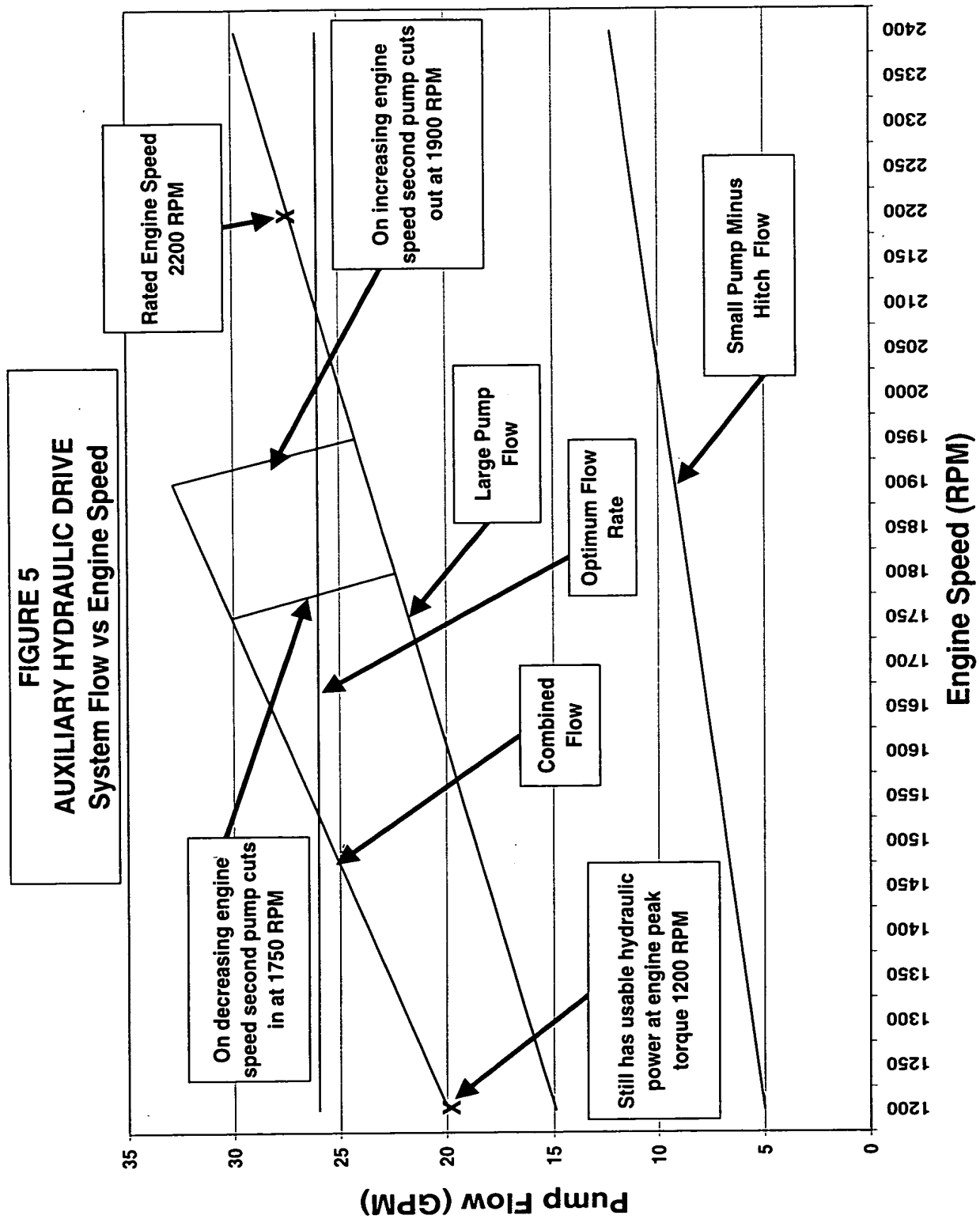


FIGURE 6 Engine Speed vs System Flow

Optimal Flow gal/ min	Engine Speed RPM	Large Pump Rated Flow	Small Pump Rated Flow	Small Pump Status	Combined Pumps Minus Hitch	Increasing RPM	Decreasing RPM
26	1200	14.9	5.0	On	19.9	19.9	19.9
26	1250	15.5	5.3	On	20.8	20.8	20.8
26	1300	16.2	5.6	On	21.8	21.8	21.8
26	1350	16.8	5.9	On	22.7	22.7	22.7
26	1400	17.4	6.2	On	23.6	23.6	23.6
26	1450	18.0	6.5	On	24.5	24.5	24.5
26	1500	18.6	6.8	On	25.5	25.5	25.5
26	1550	19.3	7.1	On	26.4	26.4	26.4
26	1600	19.9	7.4	On	27.3	27.3	27.3
26	1650	20.5	7.7	On	28.2	28.2	28.2
26	1700	21.1	8.0	On	29.1	29.1	29.1
26	1750	21.8	8.3	On	30.1	30.1	30.1
26	1800	22.4	8.6	On/Standby	31.0	31.0	22.4
26	1850	23.0	8.9	On/Standby	31.9	31.9	23.0
26	1900	23.6	9.2	Standby	32.8	32.8	23.6
26	1950	24.2	9.5	Standby	33.8	24.2	24.2
26	2000	24.9	9.8	Standby	34.7	24.9	24.9
26	2050	25.5	10.1	Standby	35.6	25.5	25.5
26	2100	26.1	10.4	Standby	36.5	26.1	26.1
26	2150	26.7	10.7	Standby	37.5	26.7	26.7
26	2200	27.3	11.0	Standby	38.4	27.3	27.3
26	2250	28.0	11.3	Standby	39.3	28.0	28.0
26	2300	28.6	11.6	Standby	40.2	28.6	28.6
26	2350	29.2	11.9	Standby	41.1	29.2	29.2
26	2400	29.8	12.2	Standby	42.1	29.8	29.8

570 Pump = 3.19
Second pump = 1.55
Combined = 4.74
Displacement IN³
Flow for 3 Point Hitch = 2.5
Pump Efficiency = 90%

HP Savings at 2100 RPM
36.5 Total rated flow
26 Large pump actual flow
10.5 Difference in flows
3000 Pressure
27.6 Horsepower

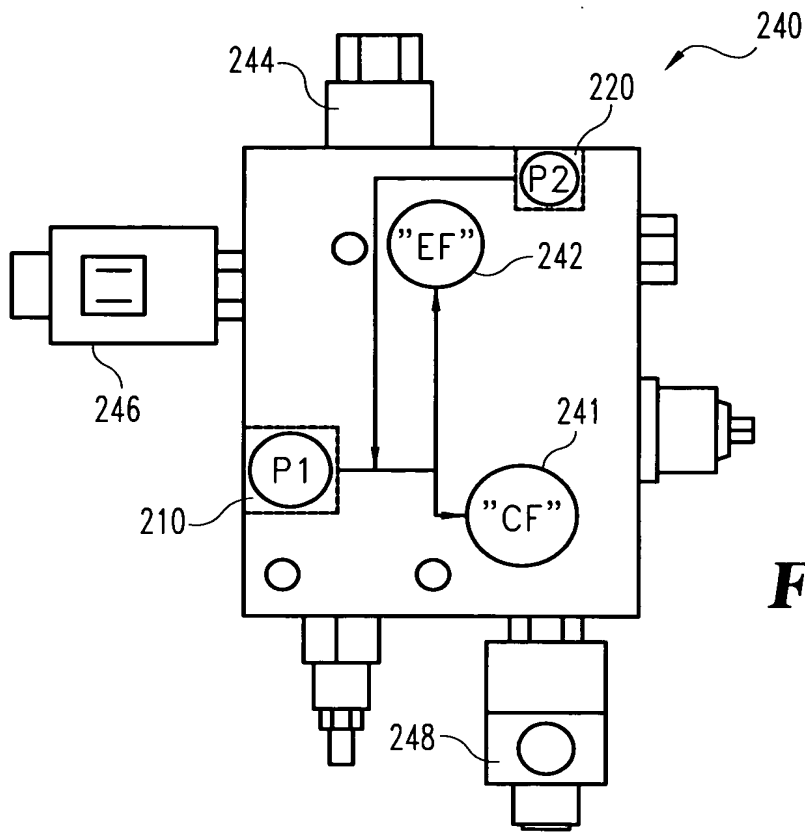


Fig. 7A

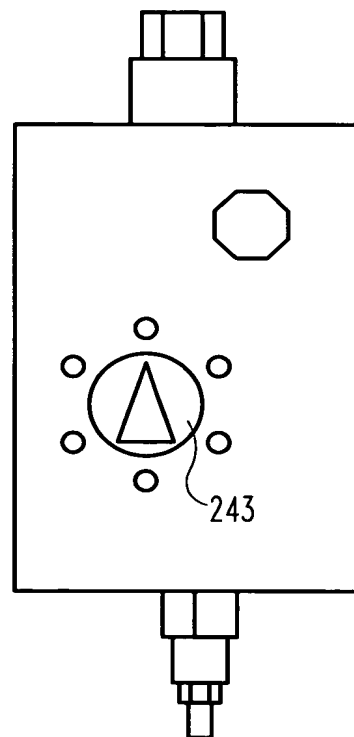


Fig. 7B